

## Claims

1. A sulfur scrubber assembly for removing sulfur from a gasoline or diesel fuel stream so as to reduce the concentration of sulfur in the fuel stream to less than about 0.05 ppm, said assembly comprising:
  - a) an open cell (6) porous foam support structure (2); and
  - b) said foam support structure including a nickel reactant on all exposed surfaces of said structure, said nickel reactant being operative to react with sulfur in the fuel stream so as to remove sulfur from the fuel stream and form nickel sulfide deposits on the support structure.
2. The assembly of Claim 1 wherein said nickel reactant is in the form of a surface coating on said support structure.
3. The assembly of Claim 2 wherein said support structure is formed from alumina.
4. The assembly of Claim 1 wherein the foam support structure is formed from nickel.